Westbound 58 PCCP

06-396704

Statistics

WESTBOUND 58 – PCCP OVER AC BASE

CT Contract No. 06-396704

Contract Amount = $ 12,000,000

PROJECT TEAM:

CALTRANS

Roger Henderson, Construction Engineer
Claudia Espino, Design Engineer
Don Minyard, Inspector
Bryan Rails, Inspector
Kevin Lai, Inspector
Hamid Alizadeh, Inspector
Larry Quang, Inspector
Raul Gallo, Resident Engineer

CONTRACTOR – EL Yeager

Dan Hirsh, Superintendent
Concrete – Sapper Construction

PROJECT STATISTICS:

2 Lanes (3.6 m), Outside Shoulder (3 m) & Inside Shoulder (1.5 m)

260 mm PCCP over AC base (45 mm to 300 mm) on existing ACP (cold planed)

Stages protected by k-rail
18,000 m long
38 mm dowels in transverse joints
19 tie bars in longitudinal joints

50,900 cu m of pcc
15 % flyash
400 kg cement
37.5 mm aggregate

Mix Design

- Contractor's proposed gradation & samples. Coarse: soundness & durability/cleanness. Fine: organic impurities, mortar strength, SE.
- Freeze-thaw, ASR(flyash %), admixtures (water reducer).
- Cement content.

Pre-paving Conference

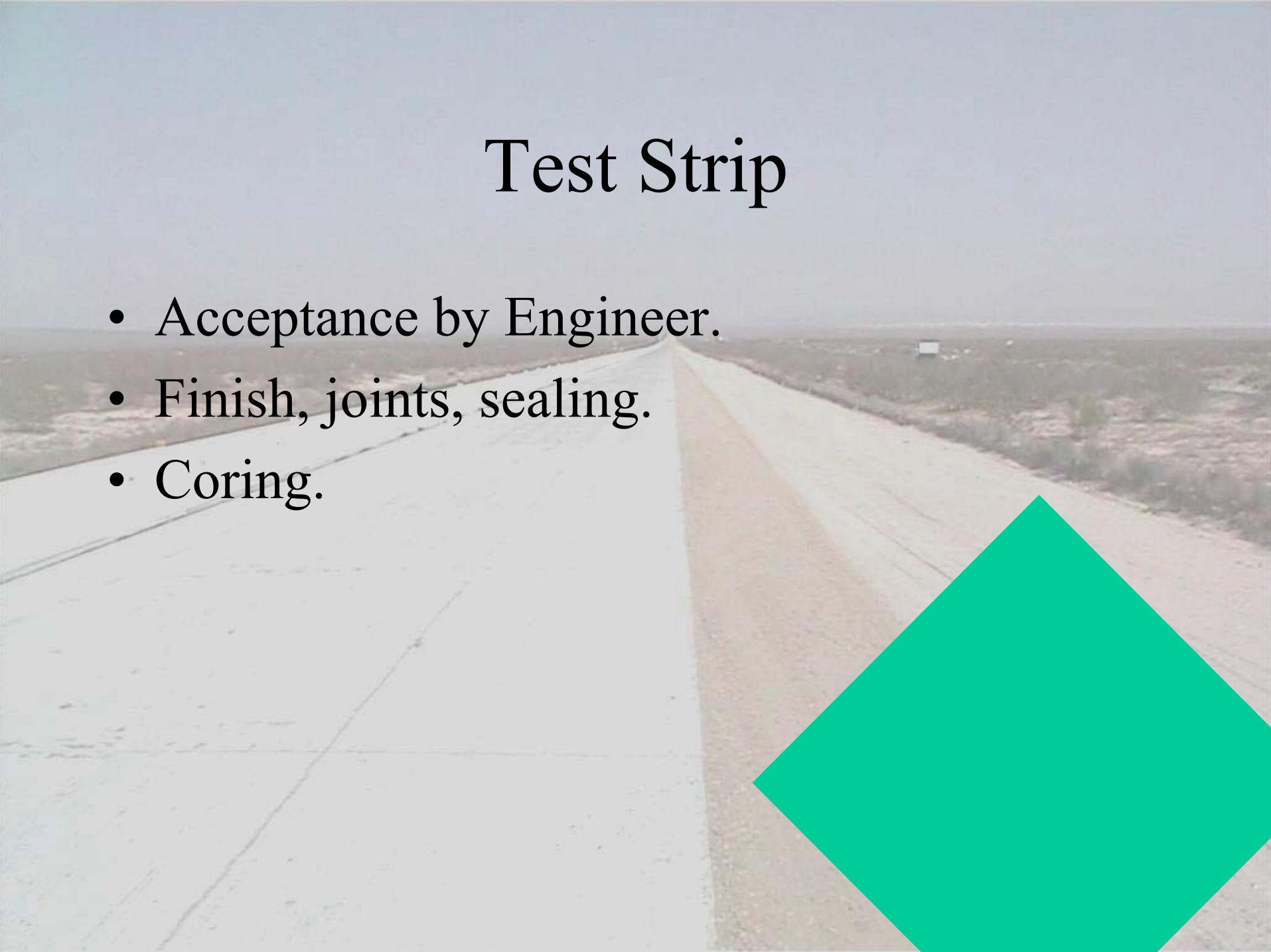
- 109 certification: footings, sample points, separation of aggregate.
- Dowel & tie-bar placement.
- Delivery, cure, sawcutting, certificates.
- Rumble strip.
- Repairs.
- Field: penetration, beams, unit weight.
  Plant: gradation, mix.

1 PAVING MACHINE

2 DBI

Test Strip

- Acceptance by Engineer.
- Finish, joints, sealing.
- Coring.



3 PCC delivery

4 dowel bar insertion

5 tie-bar insertion

6 initial finish

Placement

- Subgrade inspection.
- Equipment inspection.
- Segregation, temperature, voids, finishing, edges.
- Joint spacing.

7 pccp

8 PCCP thickness

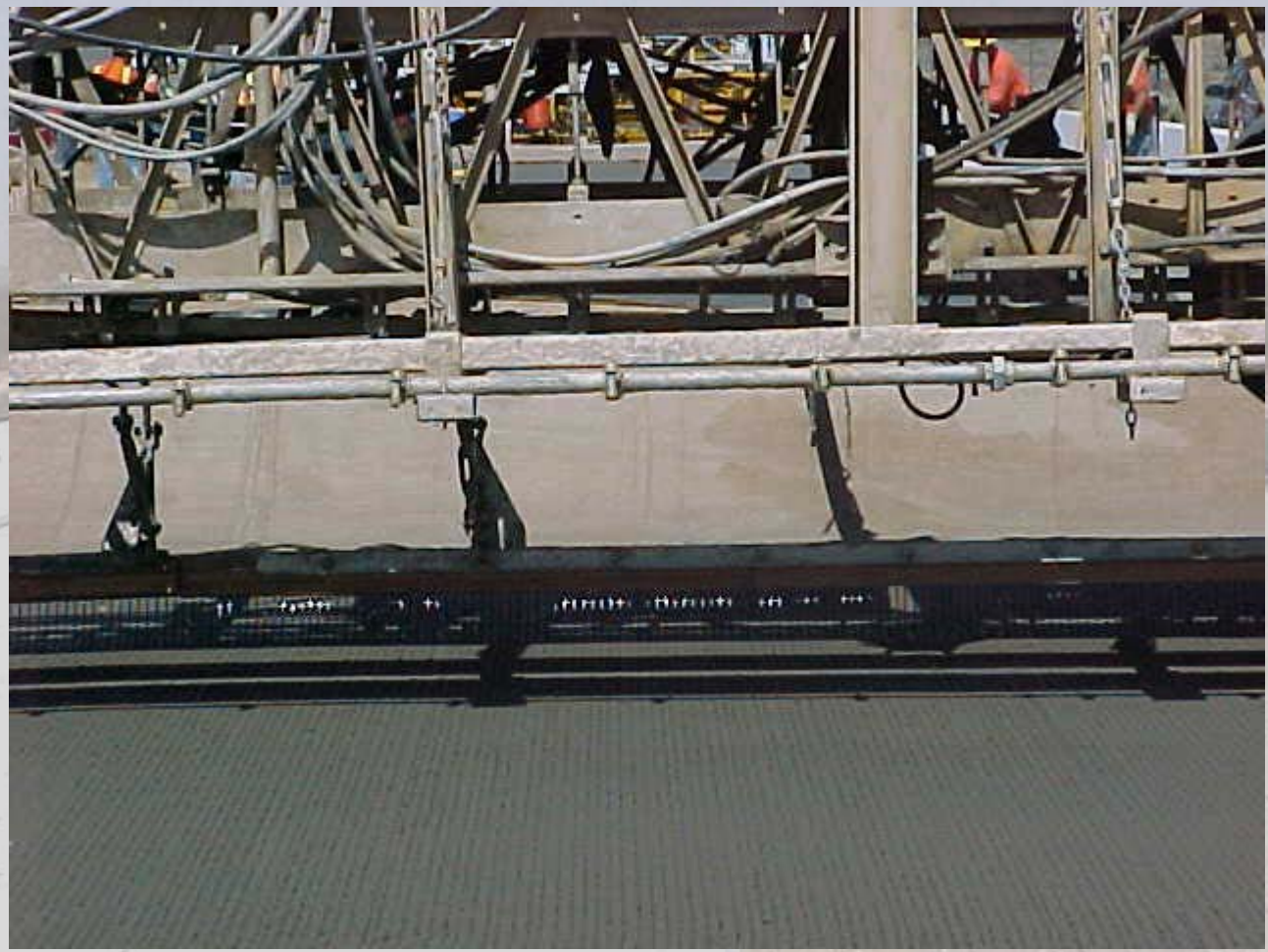
9 PCCP joint spacing

Finish

- Curing, tining.
- Sawcutting; depth, timing.
- Joint sealing.
- Cracks.

10 preliminary finish

11 tining



12 tining

12 cure machine

14 curing

15 PCCP finish

16 cure spray

17 curing

18 curing sides

19 crack at TJ:

20 crack at TJ:

21 width of crack

22 damage to cure

Safety First